

TOP SECRET



IMAGERY

ANALYSIS




STAFF

PIR

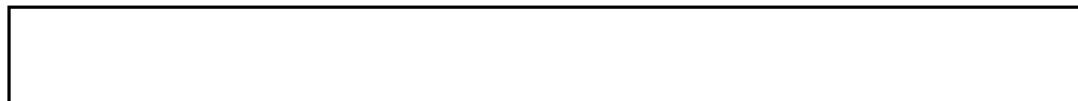
PHOTOGRAPHIC INTELLIGENCE REPORT

VITAL RECORDS COPY

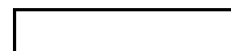
KAZAN AIRFRAME PLANT GORBUNOV 22

KAZAN, USSR, 

DECLASS REVIEW by NIMA/DOD



CIA/PIR-75090



DATE MARCH 1967 .

COPY

PAGES 7

GROUP 1
Excluded from automatic
downgrading and declassification

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KAZAN AIRFRAME PLANT GORBUNOV 22

KAZAN, USSR, [REDACTED]

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Kazan Airframe Plant Gorbunov 22 ([REDACTED]) is located at 55-51-35N 049-07-15E in the northern suburbs of Kazan, USSR. The plant is adjacent to Kazan Airfield North ([REDACTED]) (Figure 1). Kazan Aircraft Engine Plant No 16 ([REDACTED]) is immediately southwest of the airframe plant. The plant is both road and rail served.

Estimates derived from [REDACTED] photography reveal [REDACTED] square feet (sq ft) floorspace and [REDACTED] cubic feet volume within the plant area. Floorspace reported in 1964 1/ and 1965 2/ differs from

present figures due to the improved quality of current photography which allowed the determination of the number of floors in administration/engineering buildings.

Nearly 40,000 linear feet of fence/wall surround the plant and airfield; the wall portion is of probable masonry construction. Within the plant boundaries are 14,000 linear feet of rail spurs and 5,050 linear feet of roadway with an average width of [REDACTED] and 6,600 linear feet with a width [REDACTED]. The figures relating to the dimensions of the fence/wall, roadways, and rail spurs are to be considered as approximate.

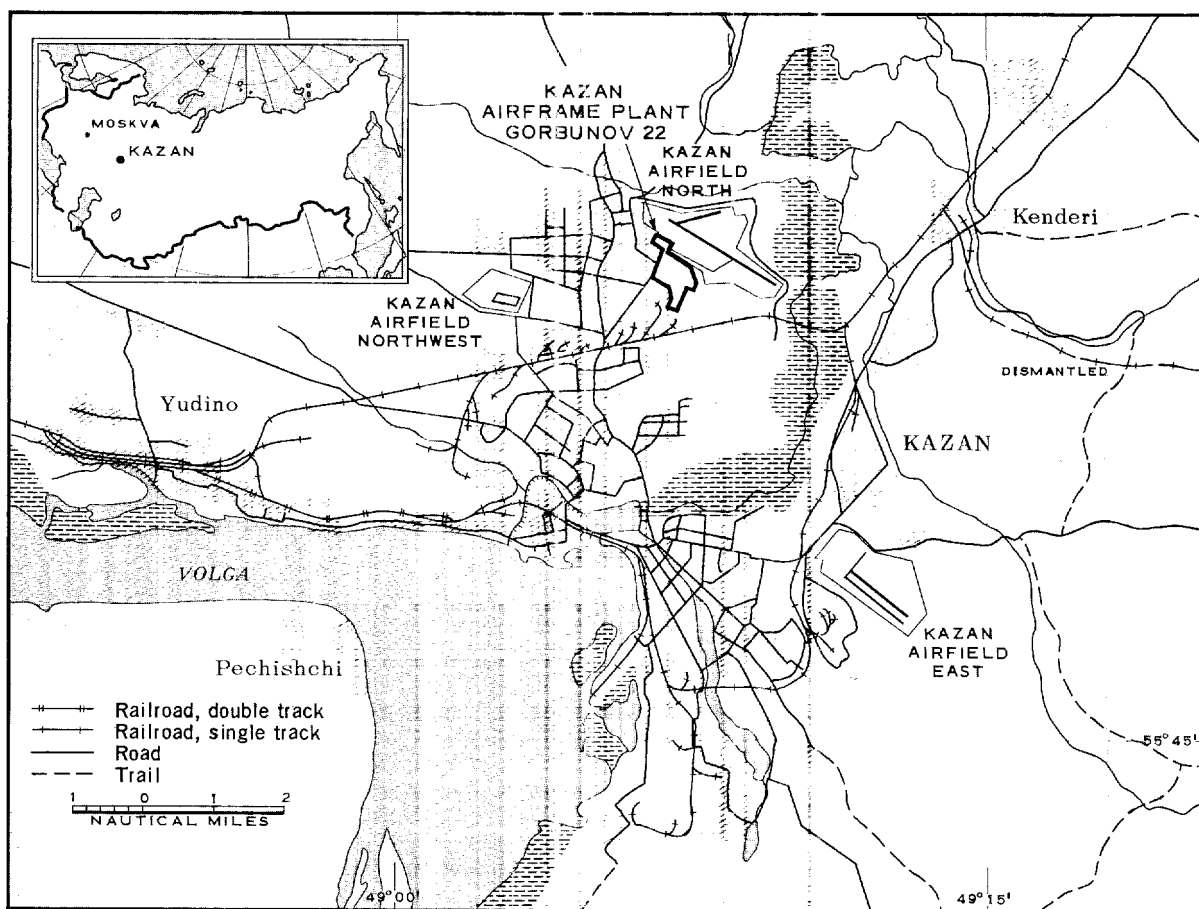
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FIGURE 1. LOCATION MAP.

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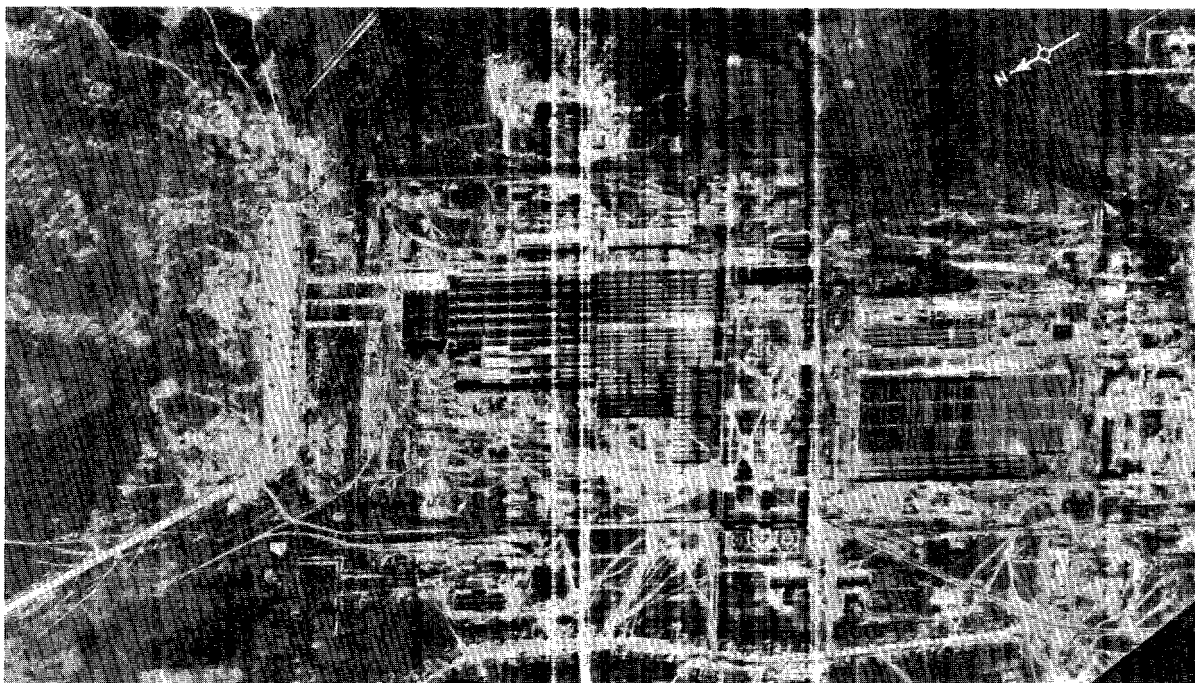


FIGURE 2. KAZAN AIRFRAME PLANT GORBUNOV 22, KAZAN, USSR,

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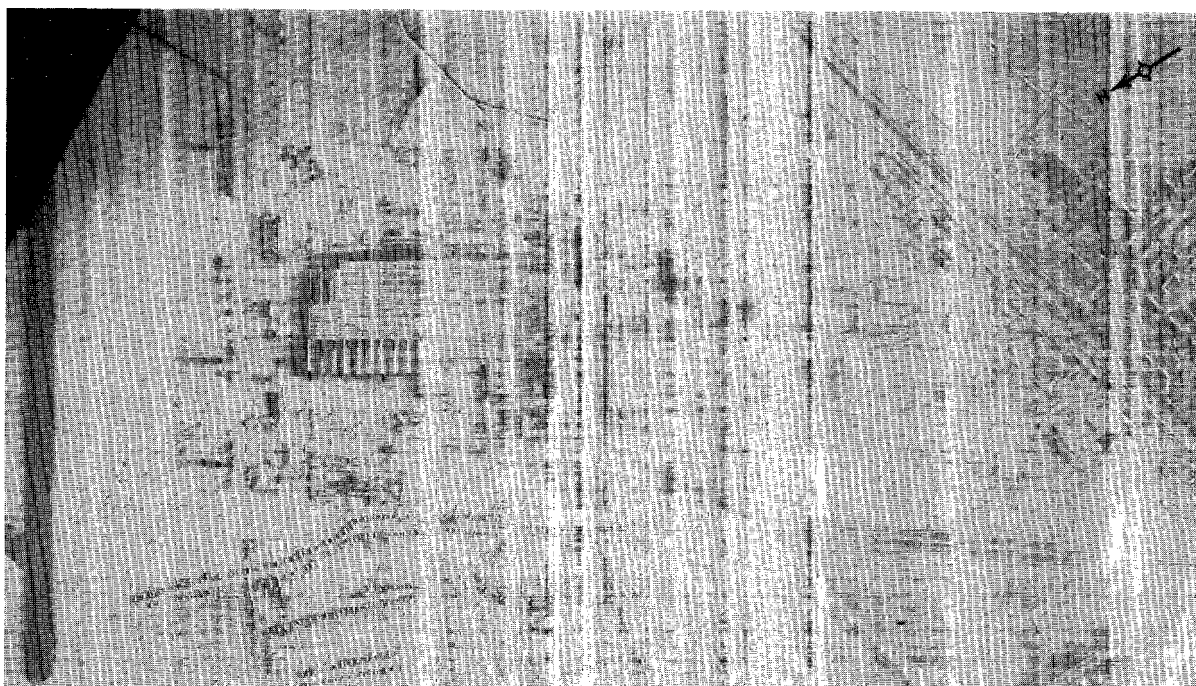


FIGURE 3. KAZAN AIRFRAME PLANT GORBUNOV

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FIGURE 4. KAZAN AIRFRAME PLANT GORBUNOV 22, [REDACTED]

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Development of the plant is shown on photography of [redacted] Figures 2, 3, and 4 respectively). All references to buildings are keyed to the plant layout (Figure 5) and the associated table.

Kazan Airframe Plant Gorbunov 22 originally was established in Moskva on the present site of Moscow/Fili Airframe Plant No 23. 3/ During the evacuation of Moskva in late 1941, the plant was moved to its present location and

Table 1. Structures at Kazan Airframe Plant Gorbunov 22, Kazan, USSR
(Item numbers are keyed to Figure 5)

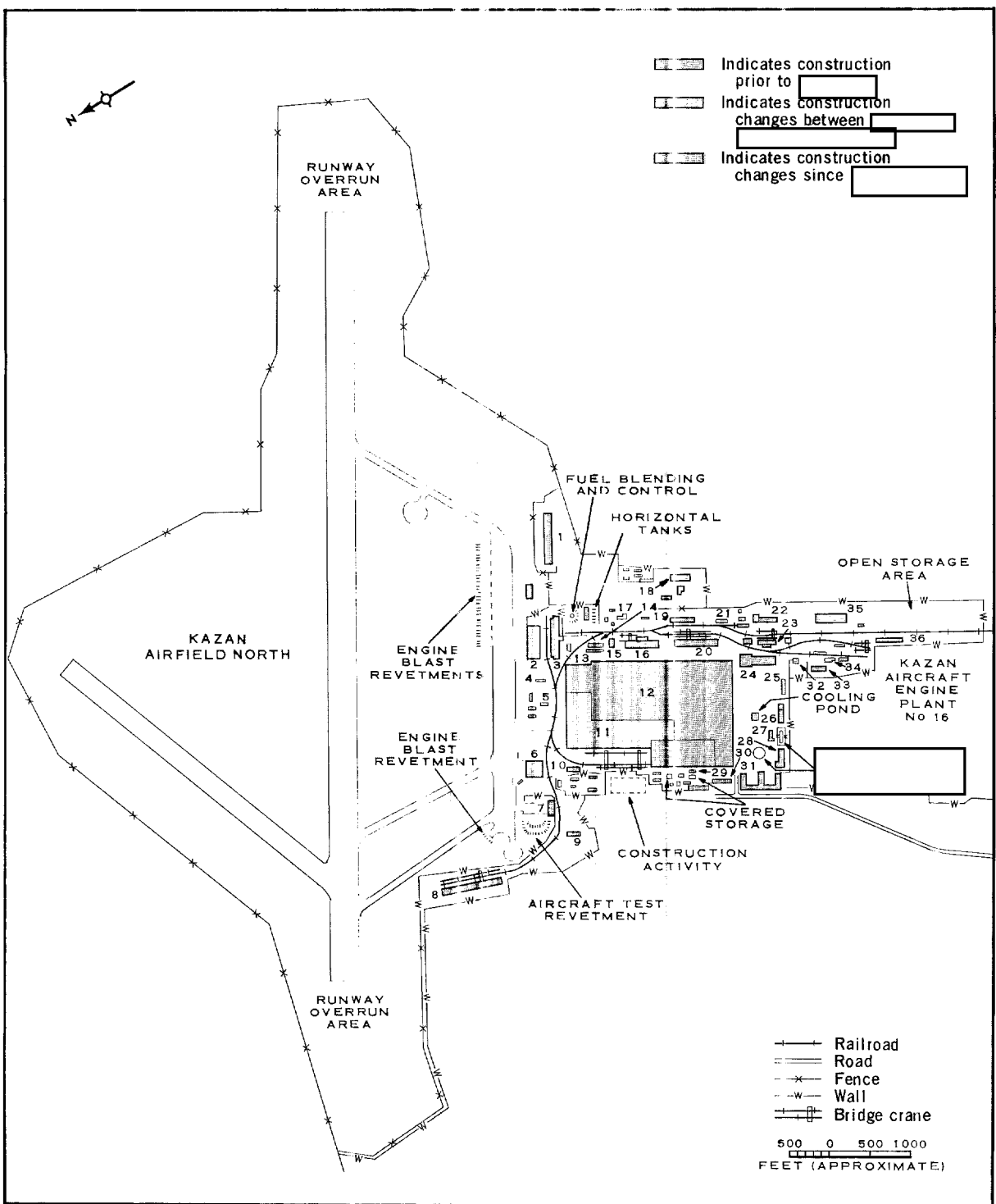
Item	Description	Dimensions (ft) (see note)*			Floorspace	Cubic Feet
		L	W	H		
1	Workshop	[redacted]			49,140	1,965,600
2	Hangar	390 x 165 x 20-10*			64,350	2,331,660
3	Engineering bldg (3 & 4 story)	Irregular			181,100	2,283,125
4	Prob equipment storage bldg	[redacted]			1,620	16,200
5	Airfield admin & control bldgs (3)	Various x 15-70*			21,430	414,350
6	Hangar	205 x 205 x 25, 40			42,025	1,484,125
7	Test control bldg	165 x 60 x 10*			9,900	99,000
8	Transshipment bldg	[redacted]			62,240	2,925,280
9	Workshop	165 x 55 x 15*			9,075	136,125
10	Workshop	Irregular x 10, 25*			15,200	338,000
11	Final assembly hall	1,095 x 350 x 75			383,250	28,743,750
12	Subassembly bldg/machine shop	Irregular x [redacted]			2,261,275	65,817,775
13	Warehouse	[redacted]			10,120	121,440
14	Warehouse	230 x 60 x 25*			13,800	345,000
15	Workshop	110 x 70 x 20*			7,700	154,000
16	Forge/foundry	Irregular x 15-30*			37,000	1,006,500
17	Workshop	Irregular x 20, 25*			5,250	111,250
18	Warehouse	265 x 75 x 20*			19,875	397,500
19	Warehouse	310 x 65 x 10*			20,150	201,500
20	Warehouse	510 x 95 x 20*			48,450	969,000
21	Poss metal treatment/processing bldg	[redacted]			8,730	157,140
22	Workshop/metal treatment bldg	Irregular x [redacted]			25,950	497,000
23	Foundry	Irregular x 25*			24,205	605,125
24	Forge	Irregular x 15, 40*			[redacted]	[redacted]
25	Warehouse/workshop	[redacted]			6,000	108,000
26	Workshop with compressor section	[redacted]			12,750	306,000
27	Prob pumphouse/compressor bldg	Irregular x [redacted]			[redacted]	[redacted]
28	Workshop/motor pool garage	Irregular x 15*			19,665	294,975
29	Support/storage bldgs (8)	[redacted]			[redacted]	[redacted]
30	Admin/engineering bldg (1 story)	[redacted]			14,000	252,000
31	Admin/engineering bldg (3 & 4 story)	Irregular x 35-60*			211,175	2,384,475
32	Prob compressor bldg	85 x 75 x 20*			6,375	127,500
33	Workshop	[redacted]			14,625	394,875
34	Poss boilerhouse	Irregular x 15*			6,360	95,400
35	Workshop	[redacted]			38,325	1,034,775
36	Warehouse	[redacted]			10,290	185,220
Total floorspace and cubic feet of numbered structures					[redacted]	
Total floorspace and cubic feet of other structures					[redacted]	
Total floorspace and cubic feet of plant					[redacted]	

NOTE--With the exception of those heights marked with an asterisk (*), all measurements were calculated by NPIC/TID and are accurate to within ±5 ft or 4% horizontally and ±10 feet vertically. Measurements were derived from [redacted]

*Measurement calculated by CIA/IAS project analyst.

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FIGURE 5. LAYOUT OF KAZAN AIRFRAME PLANT GORBUNOV 22.

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combined with Airframe Plant No 124, which reportedly had been located at Kazan Airfield North since the early 1930s. 3/ The combined plants were then designated Airframe Plant Gorbunov 22 which has been retained to the present time. 3/

The plant layout in 1942 (Figure 2) deserves special attention. It was unique among Soviet airframe plants of that era in that most of the major functions of the plant were contained under one roof and the layout was modern even by Western standards. 3/ Development of the plant since 1942 has followed the original plan as is illustrated by the subsequent photography. The final assembly building and subassembly building/machine shop (items 11 and 12) which comprise the main building contain nearly 70 percent of the plant floorspace (Figure 5).

Analysis of World War II [] photography produced an estimate of approximately 1.8 million sq ft of roof area and at least 200,000 sq ft of multistory area within the plant as of []

[] was the next coverage of the plant area. The following buildings were constructed during the 18-year period between the [] coverages: a hangar (item 2), the warehouses (items 14, 18, 19, and 36), the workshops (items 9, 15, and 35), the possible metal treatment/processing building (item 21), the possible boilerhouse (item 34), the support/storage buildings (item 29), the final assembly hall (item 11), the airfield control and administration buildings (item 5), the test control building (item 7), and various support buildings. Additions to existing buildings were made during the same period on the forge/foundry (item 16), the workshop/metal treatment building (item 22), the workshop end of the workshop with compressor section (item 26), and the subassembly building/machine shop (item 12).

During the years from [] the following buildings were constructed: the workshops (items 1 and 10), an engineering building (item 3), a warehouse (item 13), an administration/engineering building (item 30), a probable equipment storage building (item 4), a hangar (item 6), a transshipment building (item 8), and other small storage/support buildings. Another addition to the subassembly building/machine shop (item 12) was also completed during this period.

An engineering building (item 3), a warehouse (item 13), an administration/engineering building (item 30), a probable equipment storage building (item 4), and a hangar (item 6), were completed prior to []. The transshipment building (item 8) appeared to be complete by [] while the 2 workshops (items 1 and 10) appeared complete by []. Construction activity adjacent to the final assembly buildings (northwest side) is continuing. Footings were evident on [] thus indicating the possibility that a rather large building will be constructed at this location in the near future.

Kazan Airfield North, which serves the plant as a test and flyaway field, has 2 concrete runways, one of which appears to be out of service. The operational northwest/southeast runway measures approximately 10,500 by 325 feet. The unused east-northeast/west-southwest runway measures approximately 4,200 by 325 feet. It appears to be out of service due to materials being stored on the east-northeast end and the fact that no snow removal was in evidence on [] (Figure 4). In addition to the concrete runway, there are nearly 1,600,000 sq ft of concrete taxiways and parking areas within the airfield and plant area.

Aircraft observed within the airfield/plant area on [] included 2 CLASSIC, 10 BLINDER-B, 4 BADGER-B, and 2 CAB.

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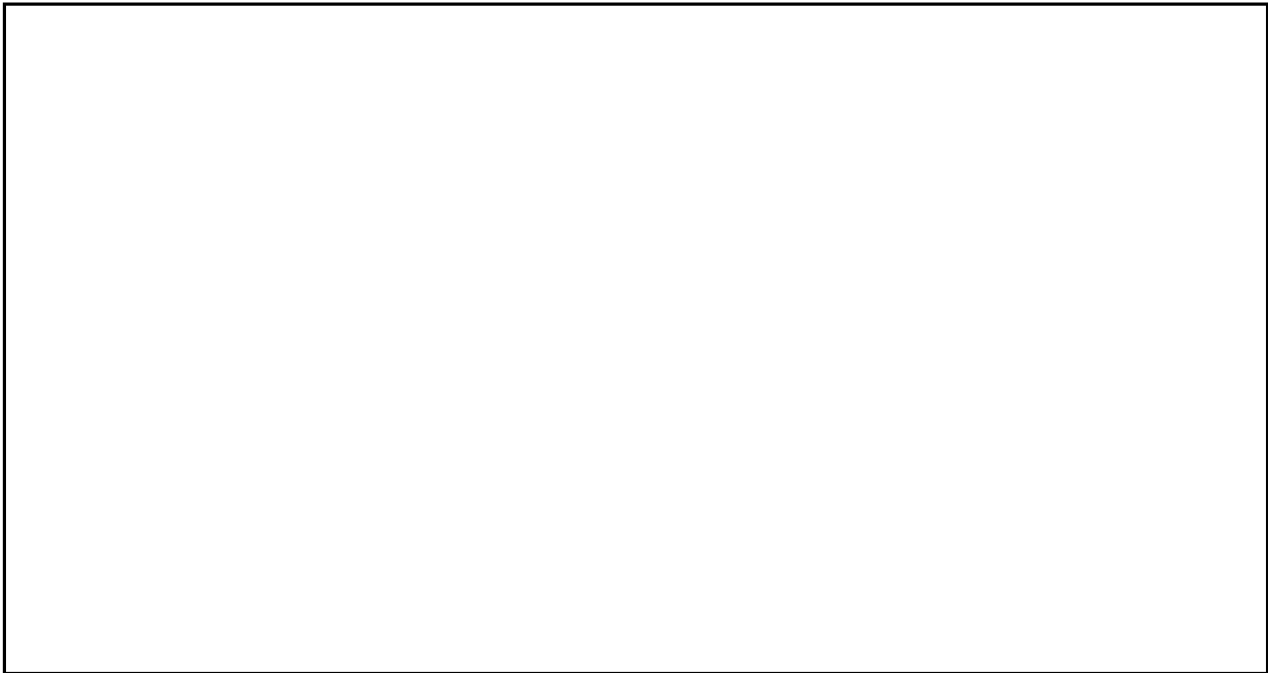
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REFERENCES

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MAPS OR CHARTS

ACIC series, scale 1:200,000

DOCUMENTS

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- 1. CIA. PIR-24/64, [redacted] *Kazan Airframe Plant Gorbunov No 22, Kazan, USSR*, Sep 64 (TOP SECRET [redacted])
- 2. CIA. PIR-65027, [redacted] *Kazan Airframe Plant No 22*, Aug 63 (TOP SECRET [redacted])
- 3. CIA. RR/RA-21, *Estimated Floorspace of Kazan Airframe Plant No. 22*, Nov 57 (SECRET)

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REQUIREMENT

CIA. C-RR6-83,650

PROJECT

31260/66 (partial answer)

TOP SECRET [redacted]



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